

13 October 1967

Coordination of Antenna System Requirements

at Headquarters

REF: A. OC-M-67-579 B. DD/S 67-4926 C. SC-M67-257

1. There is a need to establish an efficient and competent mechanism for reviewing antenna system requirements and the use of conduits for distributions of radio frequency cables to these antennas at Headquarters. The technical problems may be summarized as follows:

a. Roof Space: Each antenna installation consumes space and poses a potential interference problem to existing and future problems.

b. Conduits: The number of conduits in the Headquarters building are limited. Radio frequency cables cannot share conduit space with power cables due to valid building codes, hence any conduits used for these cables reduces space available for future signal lines.

c. COMSEC Considerations: Most radio receivers generate local oscillator signals which can travel back over the receiver antenna cable to the antenna and radiate into space. This same local oscillator signal can be modulated by other radiated signals within the Headquarters building - some of these latter signals may be of a compromising nature; hence, it is possible that compromising radiations could be enhanced if the radio frequency cables are installed in such a manner that they could readily pick up these signals. Furthermore, some of the compromising signals are at radio frequencies and

could "ride" the rf cable to the antenna and radiate into space even if the subject radios were turned off.

2. Implementation:

a. It is proposed that all requests from Agency elements for radio and television service at Headquarters be directed to the Director of Communications for initial review by [redacted]

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[redacted] has working relationships with those elements of the Office of Logistics and the Office of Security that would be directly interested in reviewing and installing such services. This would reduce the need for the Reference B reviewing committee; this committee should only be tasked when policy considerations preclude resolution by [redacted] alone.

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b. In Reference C [redacted] has proposed an acceptable mechanism for accomplishing ad hoc reviews of subject requests. However, the Engineering Services Branch of OC-E should only be asked for assistance when requirements, already determined to be valid by [redacted] exceed the technical resources of the [redacted] engineering and technical staff.

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